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AI-Empowered Lung Disease Classification and Detection: Advances and Challenges

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Message from the Guest Editor

Lung diseases, such as lung cancer, COVID-19, chronic obstructive pulmonary disease (COPD), and pneumonia, are among the leading causes of death worldwide. Early detection and accurate classification of lung diseases are crucial for timely and effective treatment. Artificial intelligence (AI) has shown great potential in the field of medical imaging and diagnostics, particularly in the detection and classification of lung diseases. However, there are still many challenges that need to be addressed to fully realize the potential of AI in this field. Hence, this Special Issue aims to provide a comprehensive overview of the current state of the art in AI-empowered lung disease classification and detection and to discuss the challenges and limitations in the field. By bringing together experts from various fields, including computer science, medical imaging, and medicine, we hope to foster new collaborations and accelerate the development of AI-based diagnostic tools for lung diseases.



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Special Issue